

Date: Sun, 2 Oct 94 11:51:12 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: List  
Subject: Info-Hams Digest V94 #1086  
To: Info-Hams

Info-Hams Digest                      Sun, 2 Oct 94                      Volume 94 : Issue 1086

Today's Topics:

        Aside "How far can I talk?"  
                Balloon Launch  
        Converting Motorola Pulsars to 2m  
                Expose - Wouff-Hong  
        GB2RS News 2nd October 1994 (2 msgs)  
                I'm a ham, kinda (2 msgs)  
        Looking for Scanner enthusiasts digest...  
Name you favorite PC software for learning/getting license...  
North Shore Repeater Assoc News Electronic Edition available  
Restrictive Covenants: I can't have \*any\* antenna?  
Should I build or buy a TV antenna? (2 msgs)  
        Sidebands on 2m  
        TWO-LETTER CODES FOR CANADIAN PROVINCES  
        What does all call signs have been issued?  
                Where to find 1.2 gig rig?  
        Why is aviation COM VHF \*amplitude\* modulated? (2 msgs)  
                Wouff-Hong  
        WWW Ham Houston Tx

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----

Date: Sat, 01 Oct 94 22:30:23 -0400  
From: "phil reed" <p01613@psilink.com>  
Subject: Aside "How far can I talk?"

Bryan G. Peterson <peterston@phyc1.byu.edu> writes:

>  
>In article <Cwuu2p.M8L@wang.com>, dbushong@wang.com (Dave Bushong) writes:  
>  
>> So that a million-foot-high antenna will talk about 1400 miles.  
>>  
>> Can I get one of them from Texas Towers?  
>  
>Well, maybe not from Texas Towers but there is a neighbor down there at Johnson  
>Space Center that comes pretty close - 1,000,000 feet works out to about 189  
>miles (or 164 nautical miles which is the preferred unit, I believe) and that  
>is in the ballpark of a typical space shuttle orbit. Now if we can just  
>figure out how to get them to park that thing in the right place...  
>  
>Bryan Peterson  
>ki7td

Already figured out, by Jerry Pournelle and others. You take a satellite orbiting at geosynchronous altitude, and lower a rope. In order to keep the satellite in balance, you extend a rope the other way (maintaining center of gravity at geosynchronous altitude). If the rope is strong enough, you would be able to extend it all the way to the surface of the earth. (When this idea was first proposed, in the late '70s, the required tensile strength was 3-10x greater than the high-tech materials of the day.) 23,000+ mile tower high enough for you?

...phil

obHam: HTX-202 can put out more than 7 watts if it has a beefy enough power supply.

-----

Date: 2 Oct 1994 13:43:48 GMT  
From: biekert@phoenix.phoenix.net (Robert Biekert)  
Subject: Balloon Launch

Near Outer Space Transportation System (NOSTS-1)  
Balloon Launch - Clear Lake Amateur Radio Club  
Sunday - October 9, 1994

Near Outer Space Transportation System utilizing a 12 foot diameter helium balloon as the launch vehicle. NOSTS-1 is an amateur radio experiment which will carry a various payloads in a package weighing less than 6 pounds. All interested hams are invited to participate.

The payload consists of:

- \* 2 meter packet on 145.75 MHz simplex - the node name for digipeating is NOSTS-1, the mailbox callsign is KJ5MX-6, the beacon IDs as KJ5MX-3.
- \* 10 meter voice beacon on 28.322 MHz Double Side-Band with an ID interval of 33 seconds
- \* Beacon on 29.420 MHz sending "CW" beeps that correspond directly to the outside temperature. At 70 degrees Fahrenheit the beep rate is approximately 200/min. To calculate temperature from beep rate the formula:  $\text{Temp}(\text{degrees F}) = [0.56853 \times (\text{Beep rate})] - 38$   
The antenna for this device is a 2 meter dipole cut to enhance the 5th harmonic at 147.10 MHz for direction finding purposes.
- \* Beacon on 224.72 MHz for direction finding purposes only.
- \* Potential secondary payloads may include a 10 GHz gigaplexer beacon and a 2 meter uplink (147.435 MHz), 70 cm downlink (440.95 MHz) FM repeater. Final announcements on these payloads will be made on launch day.

The Clear Lake Amateur Radio Club Balloon Launch Team wishes to thank Andy MacAllister, WA5ZIB and members of the South Texas Balloon Launch Team for assistance, advice, and use of 220 MHz beacon, 29.420 MHz fireball transmitter for this launch.

An informal simultaneous HF (7.155 Mhz or up for QRM) and UHF (442.750 SE Houston | 444.275 MHz NW Houston repeaters) net will be held at 7PM on Saturday October 8th for final updates. The 40 meter net on the same frequency will be active immediately before and during the flight.

The launch site will be west of the Houston area and the direction of flight will be from west to east. Coverage may extend several states on some modes. Reception reports including frequency, time, and YOUR location are encouraged.

For additional information and reception reports contact:

Dan Feedback, KJ5MX - (713) 286-0230 [Home] - (713) 483-7189 [Work]  
 Internet: feedback@medics.jsc.nasa.gov  
 Packet: KJ5MX@KA5KTH.#SETX.TX.USA.NOAM

or

John Maca, AB5SS - (713) 488-2025 [Home] - (713) 244-7774 [Work]  
 Internet: jmaca%jscdk@jesnic.jsc.nasa.gov  
 Packet: AB5SS@KA5KTH.#SETX.TX.USA.NOAM

--

Robert E. Biekert KA5GLX Houston, Texas

Email: biekert@phoenix.phoenix.net

-----  
Date: 2 Oct 1994 11:41:58 -0500  
From: mwgordon@solaria.mil.wi.us (Mike Gordon)  
Subject: Converting Motorola Pulsars to 2m

A friend of mine recently picked up 2 Motorola Pulsars at a fest. These units are the VHF pre-cellular mobile phones that operated in the major cities. Since these units are full duplex (with duplexers, not SAW filters) and have an output of around 30 watts, they would make excellent mobile/special event repeaters.

Does anyone have any info on converting these units to 2m repeaters? I don't think that the RF details would be that difficult, but what about disabling the "brains" that were used to make it a phone? (ie. dialing, selective calling for ringing, etc)

I would not need to have them on the typical .6 mhz splits, which could cause some difficulty with desense. In fact, I'm looking at using one for our Civil Air Patrol search and rescue team which runs 143 mhz inputs and 148 / 149 mhz outputs. (And yes, CAP can use modified commercial and/or HAM equipment if it passes inspection on signal quality, interference, etc.)

Of course, I can come up with the typical repeater controller circuitry for IDing, timeouts, etc.

Any help you give me on this would be GREATLY appreciated.

Mike Gordon N9L0I mwgordon@solaria.mil.wi.us

PS: Please help support your local Civil Air Patrol unit. CAP searches for downed planes and missing persons, as well as providing disaster relief during floods, tornadoes, etc. CAP also has youth programs that teach cadets respect, honor and self-worth. These lessons help out cadets become highly successful students and leaders.

Although the Civil Air Patrol is the official auxiliary of the Air Force, we are run as a non-profit corporation similar to the Red Cross. While we do get some money from the Air Force, we really depend on donations from our members and the public to help continue our work.

For information on how to help or join Civil Air Patrol, please email me at: mwgordon@solaria.mil.wi.us

-----

Date: Sat, 1 Oct 1994 14:57:35 +0000  
From: ip@g8sjp.demon.co.uk (Iain Philipps)  
Subject: Expose - Wouff-Hong

I said:-

> With all the talk of Wouff Hong (sic) I decided to search my magazine  
> archives as a research project. Not surprisingly, I turned up a singular  
> reference, which I quote below verbatim:-

>  
>"Wouff-Hong:     the ultimate amateur radio torture instrument for those

[chomp]

And then again, in article <phb.780932524@melpar>  
          phb@syseng1.melpar.esys.com "Paul H. Bock" writes:

>     Visit an ARRL-sponsored convention, and you will probably find that

[snippety snip]

> suitable for framing, which designates you as a member in the Royal  
> Order of the Wouff-Hong (R.O.W.H.)

>  
>     More than that, I cannot say.....

>  
>     73,

>  
>     Paul, K4MSG     (R.O.W.H. '76)

>

And herein lies the dilemma! On the one hand (HRH, July 1978) tells us that  
we are dealing with "... an instrument of torture ...", and on the other we  
have Paul intimating that it is a society with members. SO ... which is it?

--

Iain Philipps

-----

Date: Sun, 2 Oct 1994 17:15:15 GMT  
From: jeffrey@kahuna.tmc.edu (Jeffrey Herman)  
Subject: GB2RS News 2nd October 1994

dave@llondel.demon.co.uk (David Hough) writes:

>Good morning. It's Sunday the 2nd of October and here is the GB2RS news  
>broadcast, prepared by the RSGB and intended for all radio amateurs and

>short-wave listeners.

>.....

>Packet repeaters, GB7WH and GB7MC, on 4 metres, 70 centimetres and 23  
^^^^^^^^

Is this an error or do the Brits actually have a 75 meter band?

Jeff NH6IL

-----  
Date: Sun, 2 Oct 1994 17:25:38 GMT  
From: jeffrey@kahuna.tmc.edu (Jeffrey Herman)  
Subject: GB2RS News 2nd October 1994

jeffrey@kahuna.tmc.edu (Jeffrey Herman) writes:

>dave@llondel.demon.co.uk (David Hough) writes:

>

>>Good morning. It's Sunday the 2nd of October and here is the GB2RS news  
>>broadcast, prepared by the RSGB and intended for all radio amateurs and  
>>short-wave listeners.

>>.....

>>Packet repeaters, GB7WH and GB7MC, on 4 metres, 70 centimetres and 23  
>^^^^^^^^

>Is this an error or do the Brits actually have a 75 meter band?  
^^^^^

That's definitely an error! I meant MHz of course. Never touch a  
keyboard prior to the morning coffee.

Jeff NH6IL

-----  
Date: Sun, 2 Oct 94 08:05:05 -0500  
From: "Ron St.Denis" <rstdenis@delphi.com>  
Subject: I'm a ham, kinda

Mike....

Congratulations.... Welcome to the club... The next several weeks  
will seem like a lifetime while waiting for the mail, but, if your smart,  
you'll keep working for an upgrade. It will keep you interested in the hobby  
and help the time to pass. I passed the requirements for General on a  
Saturday and received my Tech+ ticket two days later on Monday. That was  
quite a thrill ! I was kind of lucky but unlucky... It took 13 weeks for my  
original ticket to arrive. It made me real anxious, but, studying for

General kept me busy... I was listening to CW tapes every day on my way to work and back...

Happy Hamming...

73 DE KE4NLW.... (Ron)...

+-----+-----+
Ron St.Denis   rstdenis@delphi.com
Palm Beach Gardens, FL   rstdenis@nyx.cs.du.edu
Amateur Radio - KE4NLW   ron.stdenis@jbs.com
+-----+-----+

-----  
Date: Sun, 2 Oct 1994 14:00:21 GMT  
From: tja@netcom.com (T.J. Alessi)  
Subject: I'm a ham, kinda

Mike Basinger (dbasinge@silver.ucs.indiana.edu) wrote:  
: I just passed Elements 2 & 3a today, hurrah :-). Now I just have to wait  
: to 4-9 weeks for my license.

: My plans for the future are to take a week or two off, and not look at a  
: radio :-). I will start trying to learn morse after that, and get my Tech +.

Great news! Practice no more than 20 minutes a day and learn at 10 WPM  
spacing... That's my 2 cents worth of advice...

Tom

--

-----[ T.J. Alessi - WB1L ]-----  
T.J. Alessi & Associates \* PO Box 16781 \* Stamford, Connecticut 06905-8781  
Internet: TJA@Netcom.Com \* MCI:Alessi@MCIMail.Com \* Phone: +1(203)969-1880

-----  
Date: 2 Oct 94 17:55:47 GMT  
From: RHAREL@f8maf1.jer.INTel.COM (RICHARD HAREL)  
Subject: Looking for Scanner enthusiasts digest...

Sorry for the cross-talk on this forum but I'm trying to hook up with a digest  
that serves scanner enthusiasts. I don't have USENET access, is there any  
forum on UCSD or any other LISTSERVER that has access to this digest ?

Any info is welcome.

Thanks es 73,

Rich

WB2JBS





Subject: Restrictive Covenants: I can't have \*any\* antenna?

131A80000-LondonSM(DR2305)224 (n2ic@longs.att.com) wrote:

: Another point that I haven't seen this time around: About a year ago, the  
: State of Washington passed a law that CC&R's could not be enforced against  
: objects that were not visible from outside of your own property. This law  
: was the direct result of a satellite dish owner being sued by a homeowners  
: association, even though the satellite dish could not be seen from any other  
: property.

Unless there has been a NEW law passed that I am unaware of, this statement  
is absolutely false. The ONLY Washington State Bill that I am aware of that  
would come close to this was Senate Bill 5697, Chapter 50, Laws of 1994,  
entitled, AMATEUR RADIO -- LOCAL REGULATION, effective 3/23/94.

No city or town shall enact or enforce an ordinance or regulation that  
fails to conform to the limited preemption entitled "Amateur Radio  
Preemption, 101 FCC 2nd 952 (1985), issued by the federal communications  
commission....etc.

This bill affects ONLY city, town and county ordinances and cannot  
possibly affect any CC&R or deed restriction. I would be interested to  
learn your source of this information.

Bob, KG7WC  
Spokane, WA

--

Robert J. Raymond	Spokane, Washington	bobr@on-ramp.ior.com
Patricia Raymond	Amateur Callsign KG7WC	70235.430@compuserv.com

-----  
Date: Sun, 2 Oct 1994 14:09:08 GMT  
From: tja@netcom.com (T.J. Alessi)  
Subject: Should I build or buy a TV antenna?

Scott Bigelow (scottb@vcd.hp.com) wrote:  
: I need to replace the antenna on my house. Should I shell out \$50 for the  
: standard multi-element array type or should I build a super-duper one?  
: I'm not up on my RF antenna theory so any pointers to construction projects,  
: texts, etc. would be appreciated.

Look up the "LOG-PERIODIC ANTENNA" that is what the standard TV antenna is.

A log periodic antenna is a series of dipoles for different frequencies, with the feed alternately fed. Meaning that the is crossed over left to right. And don't forget, the spacing is very important too.

Good luck.

Tom

--

-----[ T.J. Alessi - WB1L ]-----  
T.J. Alessi & Associates \* PO Box 16781 \* Stamford, Connecticut 06905-8781  
Internet: TJA@Netcom.Com \* MCI:Alessi@MCIMail.Com \* Phone: +1(203)969-1880

-----  
Date: 2 Oct 1994 10:41:00 -0700  
From: turner@safety.ics.uci.edu (Clark Savage Turner)  
Subject: Should I build or buy a TV antenna?

It all depends on the general reception in your area. Are you in a Metro area? If the signals are generally strong, I would just build a small dipole or hang a little wire off the TV connector. That is all it takes down here, no \$50 needed. It always amuses me to build a small folded dipole for FM and beat the reception of the big, fancy Radio Shack FM antennas costing \$30 and more. BUT, if you are in a fringe area, I would probably go and buy a commercial antenna...and a small rotor.

Clark  
WA3JPG

-----  
Date: 1 Oct 94 19:23:52 +0800  
From: asirene@v9001.ntu.ac.sg  
Subject: Sidebands on 2m

Hi,

I have just acquired a IC-22A 2M transceiver and noticed that there is a difference in the sideband used for receiving 144-146 and 146-148. Why is this done, and is it critical? Thanks.

Does anyone know what the difference between the 144-146 version and the 146-148 version is? Other than the difference in the sideband used? Thanks.

73,  
Daniel

-----  
Date: 2 Oct 1994 18:08:02 GMT  
From: manfred@isi5.ssl.berkeley.edu (Manfred Bester)  
Subject: TWO-LETTER CODES FOR CANADIAN PROVINCES

Would someone be so kind to send me a list of two-letter codes for the Canadian provinces. I need that for a new version of the satellite tracking program SatTrack which is about to be released.

Thanks very much in advance!

Manfred  
W6/DL5KR

manfred@sunspot.ssl.berkeley.edu

-----  
Date: Sat, 01 Oct 94 22:40:34 -0400  
From: "phil reed" <p01613@psilink.com>  
Subject: What does all call signs have been issued?

>DATE: Fri, 30 Sep 1994 18:54:59 GMT  
>FROM: Sam Noonan <snoonan@netcom.com>  
>  
>Thanks for all of the response on this question. Nice to see that  
>there is a large group of people interested in this subject.  
>  
>It just seems strange to me that the if the FCC used up all of the  
>tech/gen class call signs, then they should report what call sign  
>they are up to, even if its in a different class. It would be less  
>confusing than stating that there arn't any left.  
>  
>Thanks Again,  
>  
>Sam

The ARRL releases a list of what call signs have been allocated, on a monthly basis. I believe they get it directly from the FCC. I have seen it posted both here, Compuserve, and packet, as well as QST.

Thus, what you are asking for already exists.

-----  
Date: 2 Oct 1994 13:35:08 -0400

From: kkemper@aol.com (KKemper)  
Subject: Where to find 1.2 gig rig?

In article <36l55r\$3ev1@yuma.ACNS.ColoState.EDU>,  
mdwyer@lamar.ColoState.EDU (Michael Dwyer) writes:

Try Downeast Microwave. They have transverters up to 10 Ghz. Also the US dealer for SSB products is located in PA. The SSB product is completely assembled whereas the Downeast unit can be purchased as a kit or in completed form.

-----  
Date: Sat, 1 Oct 94 09:28:00 -0800  
From: tim.marek@megasystem.com (Tim Marek)  
Subject: Why is aviation COM VHF \*amplitude\* modulated?

Aviation uses AM instead of FM to avoid FMs "Capture Effect". On FM when 2 stations Xmit at once your receiver will lock to the loudest signal and ignore the other. On AM the 2 signals mix and create a heterodyne (Beat Note) and alert the receiver to the presence of another signal. This way any weak signal requiring assistance stands a better chance of gaining attention whereas using FM his chances of being heard are greatly reduced. 73s from Reno, NV de Tim, NC7K...sk

-----  
Date: 2 Oct 1994 16:58:22 GMT  
From: grizzarv@indirect.com (Robert V. Grizzard)  
Subject: Why is aviation COM VHF \*amplitude\* modulated?

Bruce James Robert Linley (linley@netcom.com) wrote:  
: Does anyone know why the Airline telephones (849-851/894-896MHz) use AM?  
: These air phones are relatively new and yet use AM. Was this done just to  
: 'go with the flow' of all aircraft radio operating in AM? Or was there  
: some other reason?

I'd speculate (from an earlier post in this thread) that it's due to the characteristics of weak-signal AM vs. weak-signal FM - and not the capture effect. An AM signal can be usable when it's right down there in the atmospherics, while an FM signal must be greater in amplitude than the atmospherics to be usable.

Does anyone have a definitive answer?

de kg7yy

-----

Date: 2 Oct 1994 14:26:37 GMT  
From: LPRICE@GSVMS2.CC.GASOU.EDU (LARRY PRICE)  
Subject: Wouff-Hong

Ahh yes. A return to the traditional values is long  
overdue.  
More than that I cannot say.

.73 Larry, W4RA (R.O.W.H., ARRL Nat'l Conv. 1953, then a mere 18 yrs old  
>

-----  
Date: 2 Oct 1994 13:44:47 GMT  
From: biekert@phoenix.phoenix.net (Robert Biekert)  
Subject: WWW Ham Houston Tx

For Hams in the Houston area check out the WWW page for the Clear Lake ARC.

URL <http://www.phoenix.net/USERS/biekert/index.html>

73 Bob

--  
Robert E. Biekert KA5GLX Houston, Texas  
Email: biekert@phoenix.phoenix.net

-----  
Date: 2 Oct 1994 09:58:02 GMT  
From: josephl@clark.net (Joseph A. Liu)

References<CwwGMG.4nI@nntpa.cb.att.com> <36h4nn\$1e4@dartvax.dartmouth.edu>,  
<tcjCx17Iq.Hrt@netcom.com>  
Subject: Re: RadioMap service expands into OH, PA, MO (and IL, IN, MI,

: Kenneth E. Harker (Kenneth.E.Harker@Dartmouth.Edu) writes:

: > [Bob Parnass' RadioMap posting] is a blatant commercial  
: > advertisement and has no place on the USENET.

I don't think so. GET REAL!

--  
-----

Joseph A. Liu  
Capital Associates, Inc.

-----  
Date: Sun, 2 Oct 1994 13:57:37 GMT  
From: tja@netcom.com (T.J. Alessi)

References<35le19\$p6s@junior.wariat.org> <tjaCwnLxD.CBM@netcom.com>,  
<jhesseCx0C1r.KGJ@netcom.com>  
Subject: Re: Got my ticket in record time-- Test FTP Site?

John Hesse (jhesse@netcom.com) wrote:  
: Is there an FTP site for test study material? I want to study for and  
: take the highest no-code test available.

There is only one "no-code" license available the "Technician", that's it.  
You can get that book from Radio Shack with the EXACT questions in it.

Tom

--

-----[ T.J. Alessi - WB1L ]-----  
T.J. Alessi & Associates \* PO Box 16781 \* Stamford, Connecticut 06905-8781  
Internet: TJA@Netcom.Com \* MCI:Alessi@MCIMail.Com \* Phone: +1(203)969-1880

-----  
End of Info-Hams Digest V94 #1086

\*\*\*\*\*